

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A light source driving method for a projector that projects an image, comprising:

~~controlling a driving waveform to supply electric power to a light source;~~  
~~controlling receiving the projected image and obtaining image data to adjust the projected image; and~~  
~~synchronizing the controlling steps.~~  
generating, via a synchronous signal generating process, a signal as an operation reference signal;  
generating a first synchronous signal to determine operation timing of an electric current output of a light source;  
generating a second operation signal to determine operation timing for receiving the projected image;  
obtaining image data, to adjust the projected image, in a period of the same driving waveform in synchronization with the control of the driving waveform for supplying electric power to the light source; and  
changing an electric current while lighting the light source after obtaining the image data.

2. (Currently Amended) The light source driving method of the projector according to claim 1,

the projector including a light source driving section for supplying the electric power for operating the light source, and an image obtaining section for receiving the projected image and obtaining the image data to adjust the projected image;

\_\_\_\_\_ the method further ~~comprising including generating, via a synchronous signal generating process, a signal as an operation reference, and~~ operating the light source driving section and the image obtaining section in synchronization with the signal generated in the synchronous signal generating process.

3. (Canceled)

4. (Currently Amended) ~~A~~ The projector for projecting an image according to claim 5, further comprising:

\_\_\_\_\_ a controller that synchronizes the control of ~~a~~ the driving waveform for supplying electric power to ~~a~~ the light source with control of receiving the projected image and obtaining the image data to adjust the projected image.

5. (Currently Amended) ~~The~~ A projector according to claim 4, further including: for projecting an image, comprising:

\_\_\_\_\_ a light source that emits light;

\_\_\_\_\_ a light source driving section that supplies ~~the~~ electric power to operate the light source;

\_\_\_\_\_ an image obtaining section that receives the projected image and obtains the image data to adjust the projected image; and

\_\_\_\_\_ a synchronous signal generating section that generates a signal as an operation reference,

\_\_\_\_\_ the synchronous signal generating section generating a first operation signal to determine operation timing of an electric current output of the light source driving section, and a second operation signal to determine operation timing for receiving the projected image and obtaining the image data by the image obtaining ~~section;~~ section,

\_\_\_\_\_ the light source driving section and the image obtaining section being synchronously ~~operated.~~ operated,

the image obtaining section obtaining the image data in a period of the same driving waveform in synchronization with the control of the driving waveform for supplying the electric power to the light source, and

the light source driving section changing an electric current while lighting the light source after the image obtaining section obtains the image data.

6. (Canceled)